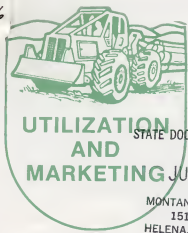


634,9805
F4mf
v.11 #3
June 1986

PLEASE RETURN

MONTANA FOREST PRODUCTS BULLETIN



STATE DOCUMENTS COLLECTION

JUN 10 1986

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

Department of State Lands, Division of Forestry
2705 Spurgin Road, Missoula, Montana 59801
Ph: (406) 728-4300

GARY G. BROWN, State Forester

PAUL MOORE, Editor

VOL. 11, NO. 3

JUNE - 1986

This bulletin is mailed primarily to individuals engaged in the Forest Products Industry in Montana. In addition, it is mailed to lumber brokers, wholesalers, dealers of sawmill and logging equipment, county agents, educators, Montana Tree Farmers, as well as the Departments of forestry in many states.

The purpose of this newsletter is to communicate information regarding the properties and uses of wood products, promote efficiency in the utilization of wood from the stump to the end product, and to serve as a information source for members of the forest products industry.

All persons receiving this newsletter are asked to examine their mailing address and advise us of any corrections needed for proper mailing.

WOOD PELLETIZING EQUIPMENT MANUFACTURERS

Over the last few months we have received a number of requests for the addresses of companies that manufacture wood pelletizing equipment. Mr. Kenneth Kilborn from the U.S. Forest Service, has compiled the following lists of which I will pass on to those interested:

M-E-C Company
P.O. Box 330
Neodesha, KS 66757
PH: (316)325-2673

Sprout-Waldron Division
Koppers Company, Inc.
Muncy, PA 17756
PH: (717)596-8211

Champion Products
7875 Fuller Road
Eden Prairie, MN 55344
PH: (612)937-9200

Heil Dehydration System
Div. of Baker-Rullman
Manufacturing, Inc.
P.O. Box 67
Watertown, WI 53094
PH: (414)261-0703

Techno Industrial Equip, Inc.
P.O. Box 143
Edmundston, New Brunswick
Canada, E3V 3K8
PH: (506)735-7903

California Pellet Mill Co
P.O. Box 6806
San Francisco, CA 94101
PH: (415)431-3800

Guaranty Performance Co.
P.O. Box 748
Independence, KS 67301
PH: (316)331-0020

Miller Hoft, Inc.
2415 W. Thompson Road
Indianapolis, IN 46217
PH: (317)787-9385

Manufacturers Consultants
2169 NW Vaughn Street
Portland, OR 97210
PH: (503)226-1930

Montana State Library



3 0864 1006 7975 5

CANADIAN RESEARCH AIMS AT INCREASING CANADA'S COMPETITIVE EDGE

The Forintek Canada Corporation, conducts forest products research in Canada. Recently, Forintek published its research and development goals and key objectives for 1986. Below are some major goals and some examples of key objectives.

These goals and objectives give some idea of how Canada will attempt to make its forest industry even more competitive on world market:

LUMBER MANUFACTURING:

Goal: Development and adaptation of technology to maximize sawmill profits through improved productivity, grade and fiber recovery, and product quality.

Saw Technology: Reduce kerfs, maintenance, noise, and sawing variations in circular sawmills.

Seasoning: Investigate alternative approaches to drying spruce-pine-fir dimension lumber.

Waferboard: Scale-up the processes to increase the dimensional stability of waferboard.

Composite Lumber: Assess the economic and technical feasibility of producing composite lumber from low quality hardwoods.

WOOD PROTECTION AND PRESERVATION:

Goal: Development of technology required by the industry to insure the growth of the treated wood products sector.

Treatment Methods: Operationally test needle incising technology using eastern and western species. Assess other incising methods such as high-pressure water jets and lasers.

Best Available Technology: Develop an information base about equipment and processes that are applicable to the primary and secondary wood product industries of Canada.

Resource Utilization: Evaluation of technology and processes for the economic conversion of small diameter logs.

COMPOSITE PRODUCTS:

Goal: Development of technology and processes to improve the manufacture and performance of existing composite products and to foster the development of new products.

Veneer Cutting: Develop a spindleless lathe which can process small diameter logs at high speed to a two inch core.

Wood Protection: Evaluate chemical formulations to find effective alternatives to chlorinated phenols. Assess new application technology to improve the distribution of chemicals on lumber, and reduce chemical consumption.

WOOD SCIENCE:

Goal: Determination and evaluation of the physical and chemical properties of wood to help the industry make informed decisions about the manufacture of quality products from the future resource.

Resource Evaluation: Determine the effects of intensive forest management practices on the physical and chemical properties of Douglas-fir and two eastern Canadian species and on the quality of the final product.

Wood Quality: Support of tree improvement programs across the country through parent-tree density evaluation and research growth rate/specific gravity relationships.

Species Identification: Develop methods for commercially sorting important species groups with special emphasis on the separation of spruce-pine-fir and hem-fir (true fir) species.

From the Alaska Forest Products Newsletter. Edmond C. Packee, Agricultural & Forestry Experiment Station, University of Alaska, Fairbanks.

WMMA HAS 1986 BUYER'S GUIDE AVAILABLE

The 1986 edition of the "Buyer's Guide & Directory to Wood Machinery Manufacturers of America" is a valuable resource guide to the U.S. wood industry buyers and manufacturers.

Compiled by the Wood Machinery Manufacturers of America (WMMA), the 1986 Buyer's Guide & Directory contains complete, up-to-date information on 110 woodworking machinery manufacturers and specialized machines and tools. It serves as a useful guide and reference work for purchasing executives and other key decision makers in all types of woodworking installations, from furniture manufacturing to sawmills and plywood plants.

Key features of the annual 196 page Buyer's Guide include:

Addresses and key executives of 110 U.S.-based manufacturers of woodworking machines, cutting tools, and related equipment.

A machine index listing all standard types of woodworking equipment, organized by function. A new section on sawmill machinery is included.

To obtain a copy of the directory contact: Woodworking Machinery Manufacturers Association of America, 1900 Arch Street, Philadelphia, Pennsylvania 19103. Ph: (215)564-3484.

GUIDE TO SANDED PLYWOOD PUBLISHED BY APA

A guide to sanded plywood grades and their many diverse applications has been published by the American Plywood Association (APA).

The 12 page guide includes descriptions of the various sanded plywood grades available, finishing and handling recommendations, and a summary of the product's advantages for a broad range of applications, including construction, handling materials, transportation, agriculture, manufactured products, concrete forming, and do-it-yourself projects. Typical APA sanded plywood trademarks are also illustrated and explained.

For a free single copy of APA "Product Guide: Sanded Plywood", Form K435, write or call the American Plywood Association, P.O. Box 11700, Tacoma, Washington 98411. Ph: (206)565-6600.

Source: Forest Products Research Society, Forest Products Journal, December 1985.

MONTANA LOG PRICE REPORT

The State-wide log price report on the following page catalogs recently delivered average log prices to sawmills by species using four geographical areas within Montana. Prices are provided by approximately 35 sawmills operating within the State. The report is compiled through the Extension Forester's Office, School of Forestry, University of Montana, Missoula 59812. Ph. (406) 243-2773.



Office of Extension Forestry
School of Forestry
University of Montana
Missoula, MT 59812
(406) 243-2773

MONTANA SAWLOG AND VENEER LOG PRICE REPORT

MAY - JUNE 1986 -

The following information is a summary breakdown of recent past average prices reportedly paid by primary wood processors for logs of the various species listed. These prices are not necessarily a reflection of current market prices. Fair market prices may vary a great deal based on log size, length, quality, contract size and terms, and a number of other factors. All information reported is recent average price per thousand board feet (MBF), Scribner Decimal rule delivered to the mill site, unless otherwise noted.

Prices provided for this report by individual firms are treated as confidential disclosure of the firm's operations. Any requests for mill specific data which have been provided for the log report will be denied.

SAWLOGS Scribner Dec C MBF	REGION I			REGION II			REGION III			REGION IV		
Species	Avg.	Low	High	Avg.	Low	High	Avg.	Low	High	Avg.	Low	High
Ponderosa pine				\$ 185 / \$ 185 / \$ 185		G						
(Yellow)				\$ 217 / \$ 185 / \$ 275		G/F	\$ 200 / \$ 200 / \$ 200		G			
(Bull)				\$ 142 / \$ 120 / \$ 160		G/P	\$ 110 / \$ 110 / \$ 110		P			
Lodgepole pine				\$ 146 / \$ 130 / \$ 160		G/F	\$ 150 / \$ 150 / \$ 150		G/F	\$ 162 / \$ 160 / \$ 165		G/F
Douglas-fir				\$ 141 / \$ 120 / \$ 160		G/P	\$ 152 / \$ 150 / \$ 155		G	\$ 157 / \$ 150 / \$ 155		G/F
Western larch				\$ 141 / \$ 120 / \$ 160		G/P	\$ 155 / \$ 155 / \$ 155		G			
Englemann spruce				\$ 152 / \$ 130 / \$ 170		G/P	\$ 155 / \$ 150 / \$ 160		G/F	\$ 160 / \$ 155 / \$ 165		G/F
Subalpine fir				\$ 135 / \$ 120 / \$ 145		G/P	\$ 145 / \$ 145 / \$ 145		P	\$ 157 / \$ 155 / \$ 160		G/F
Grand fir				\$ 134 / \$ 120 / \$ 140		F/P	\$ 145 / \$ 145 / \$ 145		P			
Western red cedar				\$ 182 / \$ 165 / \$ 200		F						
Hemlock				\$ 132 / \$ 120 / \$ 145		P						
White pine				\$ 210 / \$ 150 / \$ 230		G/P						

NO PRICES REPORTED

VENEER LOGS Scribner Dec C MBF	STATEWIDE REPORT			
Species	Avg.	Low	High	Demand Next 60 Days
Douglasfir	\$ 160 /	\$ 160 /	\$ 160	G
White Fir & Lodgepole	\$ 155 /	\$ 155 /	\$ 155	G
Western Larch	\$ 152 /	\$ 145 /	\$ 160	G/P
Englemann Spruce	\$ 155 /	\$ 155 /	\$ 155	G
Ponderosa pine (bull)	\$ 90 /	\$ 90 /	\$ 90	P
Subalpine fir	\$ 150 /	\$ 150 /	\$ 150	G
Grand fir	\$ 150 /	\$ 150 /	\$ 150	G

*
G = Good
F = Fair
P = Poor

STATE TIMBER SALES

Mayo Gulch Timber Sale

Sealed bids will be received by the Department of State Lands, Forestry Division, 2705 Spurgin Road, Missoula, Montana, up to 2:00 p.m., June 24, 1986, for the merchantable sawtimber designated for cutting in Sections 18 and 20, T18N, R17W, and Sections 12 and 24, T18N, R28W estimated to contain 1,095 MBF ponderosa pine, 306 MBF western larch, 779 MBF Douglas-fir, 1 MBF spruce, 546 MBF lodgepole pine, 33 MBF white fir, 1 MBF western redcedar, and 1 MBF dry sawlogs, more or less, for a total estimated volume of 2,762 MBF.

Full particulars regarding the terms to the contract regulations governing the sale and bid forms may be obtained from the Department of State Lands, Forestry Division, or the Southwestern Land Office, 1401 27th Avenue, Missoula, Montana.

Beaver Creek Timber Sale

Sealed bids will be received by the Department of State Lands, Forestry Division, 2705 Spurgin Road, Missoula, Montana, up to 3:00 p.m., June 24, 1986, for the merchantable sawtimber designated for cutting in Sections 4 and 10, T14N, R9W, estimate to contain 699 MBF ponderosa pine, 317 MBF Douglas-fir, 1MBF spruce, 1,265 MBF lodgepole pine, 1 MBF white fir, and 1 MBF dry sawlogs, more or less, for a total estimated volume of 2,284 MBF.

Full particulars regarding the terms of the contract regulations governing the sale and bid forms may be obtained from the Department of State Lands, Forestry Division, the Southwestern Land Office, 1401 27th Avenue, Missoula, Montana, or the Clearwater Field Office, Box 388, Greenough, Montana.

Gopher Hill Timber Sale

Sealed bids will be received the the Department of State Lands, Forestry Division, 2705 Spurgin Road, Missoula, Montana, up to 2:00 p.m., June 20, 1986, for the merchantable sawtimber designated for cutting on Sections 12 and 14, T31N, R29W estimated to contain 22 MBF ponderosa pine, 677 MBF western larch, 1,271 MBF Douglas-fir, 3 MBF spruce, 88 MBF lodgepole pine, 1 MBF true firs, 25 MBF dead all species, for at total of 2,087 MBF, more or less.

Full particulars regarding the terms to the contract regulations governing the sale and bid forms may be obtained from the Department of State Lands, Forestry Division, the Northwestern Land Office, 2250 Highway #93 North, Kalispell, Montana, or the Libby Unit, 14096 #37, 14 miles east of Libby, Montana.

Clear Creek Timber Sale

Sealed bids will be received by the Department of State Lands, Forestry Division, 2705 Spurgin Road, Missoula, Montana, up to 2:00 p.m., June 19, 1986, for the merchantable sawtimber designated for cutting on Section 36, T25N, R25W estimated to contain 38 MBF ponderosa pine, 526 MBF western larch, 1,242 MBF Douglas-fir, 34 MBF spruce, 97 MBF lodgepole pine, 45 MBF white fir (includes subalpine fir, grand fir and western hemlock), and 22 MBF dead all species.

Full particulars regarding the terms to the contract regulations governing the sale and bid forms may be obtained from the Department of State Lands, Forestry Division, or the Northwestern Land Office, 2250 Highway #93 North, Kalispell, Montana.

Other Timber Sales

Swamp Cat, Simmons Meadow, Boulder Beacon, Partridge Creek will also be sold in June. For more information contact Department of State Lands, Forestry Division, 2705 Spurgin Road, Missoula, Montana 59801, (406)728-4300.

RECENT PUBLICATIONS

The following publications may be obtained free upon request by contacting the Forest Products Laboratory, One Gifford Pinchot Drive, Madison, Wisconsin 53705. Ph: (608)264-5600.

Current Developments in the Conversion of Wood to Liquid Fuels. Zerbe, J.I. In: Symposium on Forest Products Research International-Achievements and the Future, Vol. 5; 1985 April 22-26.

Laminated Veneer Lumber-A High Quality Structural Lumber Substitute. Youngquist, John A. In Symposium on Forest Products Research International-Achievements and the Future, Vol. 6; 1985 April 22-26.

Water Repellency and Dimensional Stability of Wood. Rowell, Roger M., Banks, W. Bart. USDA Forest Serv. Gen. Tech. Rep. FPL-50; 1985.

Design of Fire-Restrictive Coated Wood Members. White, Robert H. Proceedings of the 3rd Annual Fire Engineering Conference; 1985 June 3.

Wood Modified by Inorganic Salts: Mechanism and Properties. I. Weathering Rate, Water Repellancy, and Dimensional Stability of Wood Modified with Chromium (III) Nitrate Versus Chromic Acid. Williams, R.S., Feist, W.C. Wood Fiber Sci. 17(2):184-198.

Interaction of CCA Preservative Treatment and Redrying: Effect on the Mechanical Properties of Southern Pine. Winandy, J.E., Boone, R.S., Bendtsen, B.A. Forest Products Journal. 35(10): 62-68; 1985.

Yield Losses From Sawmill Scanner Error. Lewis, David W. USDA Forest Serv. Res. Pap. FPL 459; 1985.

A Computer Program for Analysis of Fuelwood Harvesting Costs. Harpole, George B., Rensi, Giuseppe. USDA Forest Serv. Gen. Tech Rep. FPL-46; 1985.

Efficiency of Softwood Sawmills in the Southern United States in Relation to Capacity. Steele, Philip H.; Risbrudt, Christopher D. Forest Products J. 35(7/8):51-56;1985.

Wood Products Used By Coal Mines. Stone, Robert N., Risbrudt, Christopher, Howerd, James. Forest Products J. 35(6): 45-52;1985.

FOR SALE-EQUIPMENT

30 foot portable sawmill, 48" saw, 10 foot carriage, 8 rolls, manual kickers, sawdust chute, slab roller. Complete with mandrel pulley of choice, \$5000.00. Contact Oscar Oftendahl, Foy's Lake Rd., Kalispell, MT 59901, Ph:(406) 755-4711.

6 hp dip chain gang saw; 7.5 hp x 18" undercut saw; 8-station carving machine; Mobark 636 Debarker; 2 1/2" to 4 3/4" dowel machine; 25" x 7" 4-sided planer; Lane Shingle Mill; Festo Finger Jointer. Contact Thom Labrie, Auburn Machinery, Inc., P.O. Box 3065, Auburn, Maine 04210. Ph: (207)784-4240.

1) Cable Skidder '80 C6D Tree Farmer \$18,500. 2) '83 IHC S8 \$17,000. 3) '78 Timberjack 240D \$19,000. 4) '77 C5D Deutz \$16,500. 5) '76 C5D T.F. \$ 15,000.

66" Salem Linebar with air networks, RH; six feet Blue Babe Headrig, RH; 53" black Clawson 10 knife chipper 42" x 48" Jeffrey hog rebuilt with new rotor, spare hammers. Hybert Machinery, Inc., 18827 N. Abiqua Road NE, Silverton, Oregon 97381-9725. Ph: (503)873-3800.

Sawmill, planer, lumber business on 12 acres, with good Peterbilt and Prentice 110. 404 Timberjack or ACHD5 and 330 Timberjack. Highland Log Homes, 5275 Argenta Road, Dillon, Montana 59725. Talk to Lee M. James, ph. (406)683-4991.

Solar dry Lumber Kiln, the only patented, proven solar kiln in kit form. Capacities from 500 board feet. Simple, inexpensive, modular construction allows for infinite expansion. Straight solar or use with conventional back-up heat system. Contact Solor Kiln Co., Inc. for information, 101 Exchange St., Mazomanie, Wisconsin 53560, phone (608)767-2385.

Log Truck, trailer, self loader 1973 International Log Truck, 250 Cummins engine, 13 speed transmission, Eaton 38 DT 38000 2-speed Tandem axle. Also includes 1972 General trailer and 1974 Savage self loader. Contact McFarland Cascade, P.O. Box 670, Sandpoint, Idaho 83864.

1969 International log truck, 250 Cummins, main transmission - 8753-13; aux. trans. - 8341-C, SQHD 6.17 ratio rear axle, electronic scales, 1967 Freuhauf trailer and 1973 Savage M170 self loader. Contact Charlier Mercer, Kooskia, Idaho, phone (208)926-4851.

1960 P&H model 155A log loader, engine is blow and track carrier, has no travel gear, \$2,000. Contact Todd Brown, phone (406)587-5181.

1971 International log truck - 318 GMC diesel, rebuilt in 1985; 5-speed main transmission; 4-speed Browning, 1968 pierce log trailer. Contact Bill Strain, phone (208)826-3536.

Brush blade for D-6 catapillar call Jim Anderson, days 642-3831, evenings 777-3409.

Cable Skidders: 1) '80 C6D Tree Farmer \$18,500. 2) '83 IHC S8 \$17,000. 3) '78 Timberjack 240D \$19,000. 4) '77 C5D Deutz \$16,500. 5) '76 C5D T.F. \$15,000. 6) '73 C5D T.F. \$12,500. 7) '71 C5D T.F. \$9,800. 8) '82 Timberjack 230A \$22,000. 9) '84 T.J. 240A \$35,000. 10) '79 Clark 666C \$17,000. 11) '73 JD 540A \$11,000. 12) '74 JD 440B \$11,000. Grapple Skidders: 13) '76 Timberjack 240D \$17,000. 14) '82 Tree Farmer C7D \$26,500. 15) '78 Clark 666C \$17,500. 16) '80 T.F. C6D \$21,000. Forwarders: 17) Franklin 132XL \$16,500. 18) Franklin 170 XL \$17,500. 19) Timberjack 230D \$17,500. 20) Husky 141 Loader \$8,800. 21) Husky 185 XL \$15,000. 22) Prentice H self-propelled \$8,800. 23) 1080 Bobcat Feller Buncher \$23,500. 24) 1075 Bobcat Bucket \$10,500. 25) '79 Drott 40 \$42,500. 26) '79 Hydro Ax 411 \$23,500. 27) Also salvage repair parts, attachments and tires. Midwest Tractor, Inc., Highway 10 West, Big Lake, Minnesota 55309. Ron at (612)263-3777 or evenings at (612)295-5037.

FOR SALE PRODUCTS

We can supply truckloads or carloads of prefabricated and/or any preservative treated forest products such as Bridge Timbers in Structural Grades of Oak, SYP, or DF, Cross Ties, Construction Mats, Poles, Piling, and Heavy Planking, etc. Contact us for difficult or unusual specifications. Call or write Germain Timber Co., P.O. Box 7836, Pittsburgh, Pennsylvania 15215, phone (412)782-3240.

If you wish to advertise a forest product or a piece of wood-processing machinery in this bulletin complete the form below. No charge is made for this service. If you wish to rerun an item, a written request must be submitted before the next issue.

NAME OF PERSON OR FIRM: _____

MAILING ADDRESS: _____

ZIP CODE: _____ PHONE: _____

Type or print your advertisement in the space below, detach and return to:

Department of State Lands
Division of Forestry
Forest Products Bulletin
2705 Spurgin Road
Missoula, MT 59801

DEPARTMENT OF STATE LANDS
DIVISION OF FORESTRY
2705 Spurgin Road
Missoula, MT 59801

BULK RATE
U.S. POSTAGE PAID
PERMIT NO. 345
MISSOULA, MT 59801